Claim Amendment

- Claim 1. (original) A method for systematically collecting and searching for an access route of an information resource on Internet so that a program executed on a computer systematically collecting access routes of information resources on Internet and provides a text-based information searching environment, the method comprising:
- (a) forming a search index node in a hierarchical tree structure in a storage medium of the computer according to a request of a user;
- (b) receiving basic search information including an access route and a name of an Internet information resource loaded by a user using a web browser, and a selection of a search index node to be linked with the basic search information from the user, and then configuring and storing an information node in linkage with the search index node selected by the user on the basis of the basic search information;
- (c) providing a text search window to the user, receiving a hierarchical information node access route distinguished by a search event identifier through the search window, outputting a name list of search index nodes and/or information nodes in a hierarchy corresponding to an input order of the identifier when there is an input of the identifier, receiving a selection of the user for a node name included in the name list, and then adding the selected node name to the identifier so that the access route to the information node is hierarchically extended step by step; and
- (d) when an access route to a target information node is settled, extracting an access route of an Internet information resource corresponding to the corresponding information node, obtaining a target Internet information resource through Internet with the use of the extracted access route, and then outputting the target Internet information resource to the user.
- Claim 2. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 1,
- wherein the search index node is composed of a file folder with a name designated by the user.

Claim 3. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 2.

wherein the information node is composed of a file capable of extracting information about a name and an access route (URL: Uniform Resource Locator) of the information resource on Internet.

Claim 4. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 3.

wherein the hierarchical tree structure of the search index node formed in the step

(a) is output to the user as a graphic interface.

Claim 5. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 3.

wherein, in the step (b), the information node file is stored in a search index folder selected by the user.

Claim 6. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 1,

wherein the hierarchical information node access route has a format in which at least one node name with a search event identifier as a prefix is connected in series.

Claim 7. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 1,

wherein, in the step (c), the process of outputting the node name list according to the input of the search identifier and the process of extending the information node access route according to the selection of a name of a node included in the list are repeated in a cycle until a target information node is output in the node name list.

Claim 8. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 7,

wherein, in the step (d), the settlement of an access route to the target information node is accomplished by means of a selection of the target information node output in the node name list. Claim 9. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 1.

wherein, in the step (c), when the user inputs a text syllable by syllable in the state that the node name list is output, a node selection curser is automatically moved to a node name having the input text.

Claim 10. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 9.

wherein, in the step (c), when the user manipulates a predetermined node name selection key prepared on a keyboard in the state that the node selection curser is moved to a predetermined node name, the node name is added to the search event identifier so as to extend the information node access route by one step.

Claim 11. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 1,

wherein the hierarchical information node access route has a format in which names of search index nodes, each having a search event identifier as a prefix, are connected repeatedly.

Claim 12. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 1,

wherein, in the step (d), the process of outputting the target Internet information resource is any of outputting a web page through the web browser, regenerating a moving picture media by means of a moving picture regenerator whose execution route is registered in the web browser, regenerating a music by means of a music regenerator whose execution route is registered in the web browser, and outputting a corresponding file by means of an application program whose execution route is registered in an operation system.

Claim 13. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 1.

wherein, in the step a brief description about the Internet information resource is further input from the user as the basic search information to configure the information node.

Claim 14. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 1,

wherein the storage medium is a relational database, and wherein the search index node and the information node are respectively implemented as records in a node structure table provided in the relational database.

Claim 15. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 14,

wherein the node structure table includes fields for recording a record-specific identification code:

a node a node identification code for distinguishing a search index node and an information an identification code of a hierarchy to which a node belongs in the hierarchical tree structure:

a reference code for a parent node of each node in the hierarchical tree structure; and

an access route to an Internet information resource.

- Claim 16. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 15, wherein the step (a) includes:
- (al) receiving a selection of a name and a parent search index node of a search index node to be formed from the user; and
- (a2) forming a search index node in a database as a record form by recording a record-specific identification code; a node name; a node identification code designated as a search index node; and a reference node of the selected parent search index node, in corresponding fields of the node structure table.

Claim 17. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 16,

wherein the records corresponding to the search index node includes a recordspecific identification code; a node name; a node identification code; and a parent node reference code.

Claim 18. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 16.

wherein the node structure table further includes a field for recording a brief description of each node, wherein the step (al) further receives a brief description of the search index node, and wherein the step (a2) further records the brief description in the corresponding field.

- Claim 19. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 15, wherein the step (b) includes:
- (b1) receiving the basic search information including an access route and a name of an Internet information resource loaded by the user using the web browser and a selection of a search index node to which the basic search information is linked in a parent-child relation, from the user; and
- (b2) forming a record-type information node in a database by recording a record-specific identification code; a node name; a node identification code designated as an information node; a reference node of the selected parent search index node; and an access route to the Internet information resource, in corresponding fields of the node structure table.
- Claim 20. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 19, wherein the record corresponding to the information node includes a record-specific identification code; a node name; a node identification node; a parent node reference code; and an Internet information resource access route.

Claim 21. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 19,

wherein the node structure table further includes a field for recording a brief description of each node, wherein the step (bl) further receives a brief description of the information node; and wherein the step (b2) further records the brief description in the corresponding field.

Claim 22. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 15,

wherein, in the step (c), the name list is made by reading records of a search index node and/or an information node linked as a child to the search index node belonging to the hierarchy according to the input order of the identifier input by the user and corresponding to a node name extended just before, extracting a node name from the read record, and outputting the node name in a list.

- Claim 23. (original) The method for systematically collecting and searching for an access route of an information resource on Internet according to claim 22, wherein, in the step (d), the access route to the Internet information resource is extracted from the read record.
- Claim 24. (original) A method for sharing an access route to an information resource on Internet with another person through a web server by a program installed on a computer in linkage with the web server, the method comprising:
- (a) forming a search index node in a hierarchical tree structure in a storage medium of the computer according to a request of a user with a designated name;
- (b) receiving basic search information including an access route and a name of an Internet information resource loaded by the user using a web browser, and a selection of a search index node to be linked on the basis the basic search information from the user, configuring an information with the basic search information, and then storing the information node in linkage with the search index node selected by the user;

- (c) uploading a node structure including a search index node and an information node, constructed in a hierarchical tree structure, into a dedicated storage area distinguishable by means of a user ID of the web server according to an upload request of the user.
- (d) requesting and receiving a user ID list possessing the node structure uploaded in the web server to/from the web server according to a request of a user, outputting the user ID list to the user, and receiving a selection of the user about a predetermined ID included in the ID list so that a node structure that is a search target of the information node is specified;
- (e) providing a text search window to the user, and receiving a server-side hierarchical information node access route distinguished by a search event identifier through the search window, wherein, when there is an input of an identifier, the step (e) requests the web server with a name list of a child search index node and/or information node linked to a parent search index node prior to the input of the identifier and then stands by, and wherein, when the web server generates and transmits the requested name list in the node structure specified in the step (d), the step (e) transmits the name list to the user, then receives a selection of the user about a predetermined node name included in the name list, and adds the selected node name to the identifier so that a server-side access route of the information node is hierarchically extended step by step; and
- (f) when an access route to a target information node is settled, extracting an access route of an Internet information resource from the corresponding information node, obtaining a target Internet information resource through Internet with the use of the extracted access route, and then outputting the target Internet information resource to the user.
- Claim 25. (original) The method for sharing an access route to an information resource on Internet with another person according to claim 24, wherein, in the step (a), the search index node is composed of a folder having a name designated by the user.

- Claim 26. (original) The method for sharing an access route to an information resource on Internet with another person according to claim 25, wherein, in the step (b), the information node is a file capable of extracting information about a name and URL of the information resource on Internet.
- Claim 27. (original) The method for sharing an access route to an information resource on Internet with another person according to claim 26, wherein, in the step (b), the information node file is stored in a search index folder selected by the user.
- Claim 28. (original) The method for sharing an access route to an information resource on Internet with another person according to claim wherein the hierarchical information node access route has a format in which at least one node name having a search event identifier as a prefix is connected in series.
- Claim 29. (original) A method for sharing an access route to an information resource on Internet with another person through a web server by a program installed on a computer in linkage with the web server, the method comprising:
- (a) forming a search index node in a hierarchical tree structure in a storage medium of the computer according to a request of a user with a name of the search index node being designated;
- (b) receiving basic search information including an access route and a name of an Internet information resource loaded by the user using a web browser, and a selection of a search index node to be linked on the basis the basic search information from the user, configuring an information with the basic search information, and then storing the information node in linkage with the search index node selected by the user;
- (c) reading a node structure including a search index node and an information node recorded in the node structure table according to an upload request of the user, and uploading the node structure including into a database in linkage with the web server by means of identification of a user ID:

- (d) requesting and receiving a user ID list possessing the node structure uploaded in the web server to/from the web server according to a request of a user, outputting the user ID list to the user, and receiving a selection of the user about a predetermined ID included in the ID list so that a node structure that is a search target of the information node is specified;
- (e) providing a text search window to the user, and receiving a server-side hierarchical information node access route distinguished by a search event identifier through the search window, wherein, when there is an input of an identifier, the step (e) requests the web server with a child search index node and/or an information node linked to a parent search index node prior to the input of the identifier and then stands by, and wherein, when the web server reads and transmits records of a requested node in the node structure specified in the step (d), the step (e) extracts a name list of the node from the transmitted records, outputs the name list to the user, receives a selection of the user about a predetermined node name included in the name list, and adds the selected node name to the identifier so that a server-side access route of the information node is hierarchically extended step by step; and
- (f) when an access route to a target information node is settled, extracting an access route of an Internet information resource included in the corresponding information node with reference to information of the transmitted records, obtaining a target Internet information resource through Internet with the use of the extracted access route, and then outputting the target Internet information resource to the user.
- Claim 30. (original) The method for sharing an access route to an information resource on Internet with another person according to claim 29,
- wherein the search index node is composed of a record of the node structure table, and
- wherein the step (a) records a record-specific identification code; a node name; a node identification code designating that the node is a search index node; and a parent node reference code, in a record corresponding to the search index node.

Claim 31. (original) The method for sharing an access route to an information resource on Internet with another person according to claim 30.

wherein, in the step (a), a brief description of the search index node is further received from the user, and

wherein the brief description of the node is further recorded in a record corresponding to the search index node.

Claim 32. (original) The method for sharing an access route to an information resource on Internet with another person according to claim 29,

wherein the information node is composed of a record of the node structure table, and

wherein the step (b) records a record-specific identification code; a node name; a node identification code designating that the node is an information node; and a parent node reference code, in a record corresponding to the information node.

Claim 33. (original) The method for sharing an access route to an information resource on Internet with another person according to claim 32,

wherein, in the step (b), a brief description of the information node is further received from the user, and

wherein the brief description of the node is further recorded in a record corresponding to the information node.

Claim 34. (original) The method for sharing an access route to an information resource on Internet with another person according to claim 29,

wherein, in the step (c), the node structure includes information about each record for the search index node and the information node, and

wherein a user ID is endowed to each record and then the record is recorded in a server-side node structure table provided in a database in linkage with the web server.

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- Claim 35. (original) A method for accessing an Internet information resource with reference to a node structure on Internet, which is formed by means of a web server by repeatedly and accumulatively executing the following processes: composing a search index node in a mass storage medium in a hierarchical category structure, composing an information node for various Internet information resources so that the information node includes a name and an access route of each Internet information resource, and then linking the information node to a lower hierarchy of a predetermined search index node, the method comprising:
- (a) providing a text search window to a user by means of a web browsing program installed on a computer of the user, and receiving a server-side hierarchical information node access route distinguishable by a search event identifier through the search window by means of the program, wherein, when there is an input of the identifier, the step (a) requests the web server with a name list of a child search index node and/or an information node linked to a parent search index node prior to the input of the identifier and then stands by, and wherein, when the web server generates and transmits the name list requested in the node structure, the step (a) outputs the name list to the user, receives a selection of the user about a predetermined node name included in the name list, and adds the selected node name to the identifier so that a server-side access route of the information node is hierarchically extended step by step; and
- (b) when an access route to a target information node is settled, extracting an access route of an Internet information resource from the corresponding information node, obtaining a target Internet information resource through Internet with the use of the extracted access route, and then outputting the target Internet information resource to the user, by means of the program.

Claims 36-37 (canceled)